

What is claimed is:

1 1. Single-use hygiene item, such as a diaper, incontinence article,
2 sanitary napkin, having an absorbent element for absorbing and retaining bodily fluid
3 and having an analysis device for the bodily fluid, characterized in that the analysis
4 device (4) is disposed at an area of the hygiene item on which the bodily fluid to be
5 analyzed can impinge and is separated in an essentially fluid-tight manner from the
6 absorbent element by a separating means (8), so that bodily fluid passed by a user to
7 be analyzed can reach the analysis device (4) directly, but bodily fluid that has
8 penetrated to the absorbent element is retained by the separating means (8) and kept
9 away from the analysis device (4).

1 2. Hygiene item in accordance with claim 1, wherein the
2 separating medium (8) forms an insert (2) in the absorbent element containing the
3 analysis device (4).

1 3. Hygiene item in accordance with claim 2, wherein the insert (2)
2 is dish-shaped.

1 4. Hygiene item in accordance with claim 2 or 3, wherein the
2 insert (2) has sidewalls (10) extending up on the side facing the body.

1 5. Hygiene item in accordance with one of the preceding claims 2
2 to 4, wherein edges (12) of the insert (2) are folded over on their upper side (14).

1 6. Hygiene item in accordance with one of the preceding claims 2
2 to 5, wherein the insert (2) delineated by a fluid-impermeable film (6).

1 7. Hygiene item in accordance with one of the preceding claims,
2 wherein the insert (2) is located essentially flush-mounted with the upper side (14) of
3 the absorbent element facing the body.

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1 8. Hygiene item in accordance with one of the preceding claims,
2 wherein the analysis device (4) is positioned up against one side (20) of the
3 separating means (8).

1 9. Hygiene item in accordance with one of the preceding claims,
2 wherein the analysis device (4) has a visual display unit.

1 10. Hygiene item in accordance with claim 8 or 9, wherein the side
2 (20) of the separating means (8) against which the analysis device is lying, is made
3 transparent, at least in the area of the analysis device (4), so that a visual reading of
4 the display unit is possible.

1 11. Hygiene item in accordance with one of the preceding claims,
2 wherein the separating means (8) containing the analysis device is separable from the
3 hygiene item.

1 12. Hygiene item in accordance with one of the preceding claims,
2 wherein the separating means (8) containing the analysis device (4) is fastened
3 detachably to the hygiene item by means of adhesive or touch-sensitive means of
4 attachment (28).

1 13. Hygiene item in accordance with one of the preceding claims,
2 wherein the insert (2) containing the analysis device has a fluid absorbing and
3 transport layer (18) which transfers the bodily fluid to the analysis device.

1 14. Hygiene item in accordance with claim 13, wherein the fluid
2 absorbing and transport layer (18) comprises cellulose fibers without the addition of
3 superabsorbent polymer materials.

1 15. Use of an analysis device for measuring the composition of
2 bodily fluids, specifically for measuring pH, nitrite, leukocyte, glucose and/or

- 3 electrolyte values of urine or blood, in a single-use hygiene item having an absorbent
- 4 element to absorb and retain bodily fluids, such as a diaper, incontinence article or
- 5 sanitary napkin.

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